

# Jeffrey Bamber

## List of Publications by Citations

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199  
papers

7,639  
citations

45  
h-index

83  
g-index

248  
ext. papers

8,925  
ext. citations

4.4  
avg, IF

5.56  
L-index

#	Paper	IF	Citations
199	WFUMB guidelines and recommendations for clinical use of ultrasound elastography: Part 1: basic principles and terminology. <i>Ultrasound in Medicine and Biology</i> , <b>2015</b> , 41, 1126-47	3.5	483
198	WFUMB guidelines and recommendations for clinical use of ultrasound elastography: Part 3: liver. <i>Ultrasound in Medicine and Biology</i> , <b>2015</b> , 41, 1161-79	3.5	390
197	EFSUMB Guidelines and Recommendations on the Clinical Use of Liver Ultrasound Elastography, Update 2017 (Long Version). <i>Ultraschall in Der Medizin</i> , <b>2017</b> , 38, e16-e47	3.8	383
196	Ultrasonic attenuation and propagation speed in mammalian tissues as a function of temperature. <i>Ultrasound in Medicine and Biology</i> , <b>1979</b> , 5, 149-57	3.5	278
195	WFUMB guidelines and recommendations for clinical use of ultrasound elastography: Part 2: breast. <i>Ultrasound in Medicine and Biology</i> , <b>2015</b> , 41, 1148-60	3.5	255
194	Evaluation of an iterative reconstruction method for quantitative elastography. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 1521-40	3.8	208
193	Breast diseases: color Doppler US in differential diagnosis. <i>Radiology</i> , <b>1993</b> , 189, 99-104	20.5	208
192	Adaptive filtering for reduction of speckle in ultrasonic pulse-echo images. <i>Ultrasonics</i> , <b>1986</b> , 24, 41-4	3.5	200
191	Ultrasonic B-scanning: a computer simulation. <i>Physics in Medicine and Biology</i> , <b>1980</b> , 25, 463-79	3.8	185
190	Microbubble contrast agent for color Doppler US: effect on breast masses. Work in progress. <i>Radiology</i> , <b>1996</b> , 198, 679-86	20.5	163
189	Acoustic properties of normal and cancerous human liver-I. Dependence on pathological condition. <i>Ultrasound in Medicine and Biology</i> , <b>1981</b> , 7, 121-33	3.5	162
188	Color Doppler signals from breast tumors. Work in progress. <i>Radiology</i> , <b>1990</b> , 176, 175-80	20.5	156
187	High frequency, high resolution B-scan ultrasound in the assessment of skin tumours. <i>British Journal of Dermatology</i> , <b>1993</b> , 128, 525-32	4	144
186	Real time tissue elasticity imaging using the combined autocorrelation method. <i>Journal of Medical Ultrasonics (2001)</i> , <b>2002</b> , 29, 119-28	1.4	135
185	Fundamental limitations of noninvasive temperature imaging by means of ultrasound echo strain estimation. <i>Ultrasound in Medicine and Biology</i> , <b>2002</b> , 28, 1319-33	3.5	132
184	A freehand elastographic imaging approach for clinical breast imaging: system development and performance evaluation. <i>Ultrasound in Medicine and Biology</i> , <b>2001</b> , 27, 1347-57	3.5	130
183	Evaluation of the adjoint equation based algorithm for elasticity imaging. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, 2955-74	3.8	125

182	Quantitative elasticity imaging: what can and cannot be inferred from strain images. <i>Physics in Medicine and Biology</i> , <b>2002</b> , 47, 2147-64	3.8	125
181	Acoustic properties of normal and cancerous human liver-II. Dependence of tissue structure. <i>Ultrasound in Medicine and Biology</i> , <b>1981</b> , 7, 135-44	3.5	121
180	Acoustic properties of lesions generated with an ultrasound therapy system. <i>Ultrasound in Medicine and Biology</i> , <b>1993</b> , 19, 789-801	3.5	120
179	Physical parameters affecting ultrasound/microbubble-mediated gene delivery efficiency in vitro. <i>Ultrasound in Medicine and Biology</i> , <b>2006</b> , 32, 1269-79	3.5	119
178	An ezrin-rich, rigid uropod-like structure directs movement of amoeboid blebbing cells. <i>Journal of Cell Science</i> , <b>2011</b> , 124, 1256-67	5.3	88
177	Ultrasonic propagation through fixed and unfixed tissues. <i>Ultrasound in Medicine and Biology</i> , <b>1979</b> , 5, 159-65	3.5	87
176	Spectrophotometric assessment of pigmented skin lesions: methods and feature selection for evaluation of diagnostic performance. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 735-51	3.8	85
175	Differentiation of common benign pigmented skin lesions from melanoma by high-resolution ultrasound. <i>British Journal of Dermatology</i> , <b>2000</b> , 143, 281-9	4	83
174	Dual-frequency ultrasound examination of skin and subcutis thickness in breast cancer-related lymphedema. <i>Breast Journal</i> , <b>2004</b> , 10, 496-503	1.2	80
173	Breast carcinoma: measurement of tumor response to primary medical therapy with color Doppler flow imaging. <i>Radiology</i> , <b>1994</b> , 190, 825-30	20.5	80
172	Ultrasonic propagation properties of excised human skin. <i>Ultrasound in Medicine and Biology</i> , <b>1995</b> , 21, 1177-90	3.5	76
171	Ultrasonic attenuation and backscattering by mammalian organs as a function of time after excision. <i>Ultrasound in Medicine and Biology</i> , <b>1977</b> , 3, 15-20	3.5	72
170	Review of ultrasound image guidance in external beam radiotherapy: I. Treatment planning and inter-fraction motion management. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, R77-114	3.8	69
169	Ultrasonic study of in vivo kinetic characteristics of human tissues. <i>Ultrasound in Medicine and Biology</i> , <b>1986</b> , 12, 927-37	3.5	69
168	Imaging of temperature-induced echo strain: preliminary in vitro study to assess feasibility for guiding focused ultrasound surgery. <i>Ultrasound in Medicine and Biology</i> , <b>2004</b> , 30, 345-56	3.5	66
167	Exploring the biomechanical properties of brain malignancies and their pathologic determinants in vivo with magnetic resonance elastography. <i>Cancer Research</i> , <b>2015</b> , 75, 1216-1224	10.1	64
166	Review of ultrasound image guidance in external beam radiotherapy part II: intra-fraction motion management and novel applications. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, R90-137	3.8	63
165	Towards an acoustic model-based poroelastic imaging method: I. Theoretical foundation. <i>Ultrasound in Medicine and Biology</i> , <b>2006</b> , 32, 547-67	3.5	63

164	EFSUMB Guidelines and Recommendations on the Clinical Use of Liver Ultrasound Elastography, Update 2017 (Short Version). <i>Ultraschall in Der Medizin</i> , <b>2017</b> , 38, 377-394	3.8	62
163	Dynamic tests in real-time breast echography. <i>Ultrasound in Medicine and Biology</i> , <b>1988</b> , 14 Suppl 1, 53-73.5	3.5	62
162	Object surface recovery using a multi-light photometric stereo technique for non-Lambertian surfaces subject to shadows and specularities. <i>Image and Vision Computing</i> , <b>2007</b> , 25, 1050-1057	3.7	59
161	Speckle tracking in a phantom and feature-based tracking in liver in the presence of respiratory motion using 4D ultrasound. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 3363-80	3.8	57
160	Application of Fourier analysis to clinical study of patterns of tissue movement. <i>Ultrasound in Medicine and Biology</i> , <b>1988</b> , 14, 695-707	3.5	57
159	Coupling between elastic strain and interstitial fluid flow: ramifications for poroelastic imaging. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 6291-313	3.8	53
158	Feasibility of using ultrasound for real-time tracking during radiotherapy. <i>Medical Physics</i> , <b>2005</b> , 32, 1500-12	4.12	52
157	Automated quantification of color Doppler signals: a preliminary study in breast tumors. <i>Radiology</i> , <b>1995</b> , 197, 39-43	20.5	46
156	Transient elastography using impulsive ultrasound radiation force: a preliminary comparison with surface palpation elastography. <i>Ultrasound in Medicine and Biology</i> , <b>2007</b> , 33, 959-69	3.5	45
155	A preliminary assessment of an ultrasonic Doppler method for the study of blood flow in human breast cancer. <i>Ultrasound in Medicine and Biology</i> , <b>1982</b> , 8, 357-64	3.5	45
154	Segmentation and analysis of colour Doppler images of tumour vasculature. <i>Ultrasound in Medicine and Biology</i> , <b>1995</b> , 21, 635-47	3.5	44
153	Targeted retroviral gene delivery using ultrasound. <i>Journal of Gene Medicine</i> , <b>2007</b> , 9, 77-87	3.5	42
152	Trajectory optimization for dynamic couch rotation during volumetric modulated arc radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 8163-77	3.8	40
151	Spatial and acoustic pressure dependence of microbubble-mediated gene delivery targeted using focused ultrasound. <i>Journal of Gene Medicine</i> , <b>2006</b> , 8, 1347-57	3.5	40
150	In vivo liver tracking with a high volume rate 4D ultrasound scanner and a 2D matrix array probe. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 1359-74	3.8	39
149	Tumour biomechanical response to the vascular disrupting agent ZD6126 in vivo assessed by magnetic resonance elastography. <i>British Journal of Cancer</i> , <b>2014</b> , 110, 1727-32	8.7	38
148	Clutter elimination for deep clinical optoacoustic imaging using localised vibration tagging (LOVIT). <i>Photoacoustics</i> , <b>2013</b> , 1, 19-29	9	37
147	Classification of reflectance spectra from pigmented skin lesions, a comparison of multivariate discriminant analysis and artificial neural networks. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 2859-71	3.8	37

146	Optically and acoustically triggerable sub-micron phase-change contrast agents for enhanced photoacoustic and ultrasound imaging. <i>Photoacoustics</i> , <b>2017</b> , 6, 26-36	9	36
145	Freehand Elasticity Imaging Using Speckle Decorrelation Rate. <i>Acoustical Imaging</i> , <b>1996</b> , 285-292		36
144	Near-infrared photoimmunotherapy targeting EGFR-Shedding new light on glioblastoma treatment. <i>International Journal of Cancer</i> , <b>2018</b> , 142, 2363-2374	7.5	34
143	Compensation for the signal processing characteristics of ultrasound B-mode scanners in adaptive speckle reduction. <i>Ultrasound in Medicine and Biology</i> , <b>1993</b> , 19, 469-85	3.5	33
142	Elastography for breast cancer diagnosis using radiation force: system development and performance evaluation. <i>Ultrasound in Medicine and Biology</i> , <b>2006</b> , 32, 387-96	3.5	32
141	Computer-assisted diagnosis techniques (dermoscopy and spectroscopy-based) for diagnosing skin cancer in adults. <i>The Cochrane Library</i> , <b>2018</b> , 12, CD013186	5.2	32
140	A novel technique of detecting MRI-negative lesion in focal symptomatic epilepsy: intraoperative ShearWave elastography. <i>Epilepsia</i> , <b>2014</b> , 55, e30-3	6.4	31
139	Performance of ultrasound based measurement of 3D displacement using a curvilinear probe for organ motion tracking. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 5683-703	3.8	31
138	Towards an acoustic model-based poroelastic imaging method: II. experimental investigation. <i>Ultrasound in Medicine and Biology</i> , <b>2006</b> , 32, 1869-85	3.5	30
137	Quantitative evaluation of real-time ultrasound features of the breast. <i>Ultrasound in Medicine and Biology</i> , <b>1988</b> , 14 Suppl 1, 81-7	3.5	30
136	Acoustic Cluster Therapy (ACT) enhances the therapeutic efficacy of paclitaxel and Abraxane <sup>®</sup> for treatment of human prostate adenocarcinoma in mice. <i>Journal of Controlled Release</i> , <b>2016</b> , 236, 15-21	11.7	29
135	High-frequency ultrasound for diagnosing skin cancer in adults. <i>The Cochrane Library</i> , <b>2018</b> , 12, CD013188	3.2	29
134	Non-coplanar trajectories to improve organ at risk sparing in volumetric modulated arc therapy for primary brain tumors. <i>Radiotherapy and Oncology</i> , <b>2016</b> , 121, 124-131	5.3	28
133	Recent developments in non-coplanar radiotherapy. <i>British Journal of Radiology</i> , <b>2019</b> , 92, 20180908	3.4	27
132	The spatio-temporal strain response of oedematous and nonoedematous tissue to sustained compression in vivo. <i>Ultrasound in Medicine and Biology</i> , <b>2008</b> , 34, 617-29	3.5	27
131	Ultrasound elasticity imaging: definition and technology. <i>European Radiology</i> , <b>1999</b> , 9 Suppl 3, S327-30	8	26
130	Ultrasound Tomography Evaluation of Breast Density: A Comparison With Noncontrast Magnetic Resonance Imaging. <i>Investigative Radiology</i> , <b>2017</b> , 52, 343-348	10.1	25
129	Deformation-compensated averaging for clutter reduction in epiphotoacoustic imaging in vivo. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 066007	3.5	25

128	Reflectance of human skin using colour photometric stereo: with particular application to pigmented lesion analysis. <i>Skin Research and Technology</i> , <b>2008</b> , 14, 173-9	1.9	24
127	Real-time implementation of coherent speckle suppression in B-scan images. <i>Ultrasonics</i> , <b>1991</b> , 29, 218-245	3.5	24
126	Ultrasonic temperature imaging for guiding focused ultrasound surgery: effect of angle between imaging beam and therapy beam. <i>Ultrasound in Medicine and Biology</i> , <b>2005</b> , 31, 401-13	3.5	23
125	InVivo Validation of Elekta's Clarity Autoscan for Ultrasound-based Intrafraction Motion Estimation of the Prostate During Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2018</b> , 102, 912-921	4	22
124	Vessel orientation-dependent sensitivity of optoacoustic imaging using a linear array transducer. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 26011	3.5	22
123	Effect of gaseous inclusions on the frequency dependence of ultrasonic attenuation in liver. <i>Ultrasound in Medicine and Biology</i> , <b>1985</b> , 11, 293-8	3.5	22
122	Characterization of cardiovascular liver motion for the eventual application of elasticity imaging to the liver in vivo. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, 4187-206	3.8	21
121	The-effective directivity characteristic of a pulsed ultrasound transducer and its measurement by semi-automatic means. <i>Ultrasonics</i> , <b>1977</b> , 15, 169-174	3.5	21
120	Validation of the Vectra XT three-dimensional imaging system for measuring breast volume and symmetry following oncological reconstruction. <i>Breast Cancer Research and Treatment</i> , <b>2018</b> , 171, 391-398	4.4	20
119	Ultrasonic Doppler study of the hormonal response of blood flow in the normal human breast. <i>Ultrasound in Medicine and Biology</i> , <b>1987</b> , 13, 121-9	3.5	20
118	Evaluation of soft-tissue masses using segmented color Doppler velocity images: preliminary observations. <i>American Journal of Roentgenology</i> , <b>1999</b> , 172, 781-8	5.4	18
117	Performance criteria for quantitative ultrasonography and image parameterisation. <i>Clinical Physics and Physiological Measurement: an Official Journal of the Hospital Physicists Association, Deutsche Gesellschaft Fur Medizinische Physik and the European Federation of Organisations for Medical Physics</i> , <b>1999</b> , 14, Supplement 1, 57-70		18
116	Correlation of Ultrasound Shear Wave Elastography with Pathological Analysis in a Xenografic Tumour Model. <i>Scientific Reports</i> , <b>2017</b> , 7, 165	4.9	17
115	High-resolution ultrasound reflex transmission imaging and digital photography: potential tools for the quantitative assessment of pigmented lesions. <i>Skin Research and Technology</i> , <b>2006</b> , 12, 50-9	1.9	17
114	Visual impact of adaptive speckle reduction on US B-mode images. <i>Radiology</i> , <b>1992</b> , 183, 555-61	20.5	17
113	Gold nanorod reshaping in vitro and in vivo using a continuous wave laser. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185990	3.7	17
112	Investigating the Contribution of Collagen to the Tumor Biomechanical Phenotype with Noninvasive Magnetic Resonance Elastography. <i>Cancer Research</i> , <b>2019</b> , 79, 5874-5883	10.1	16
111	4D ultrasound speckle tracking of intra-fraction prostate motion: a phantom-based comparison with x-ray fiducial tracking using CyberKnife. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 1701-20	3.8	16

110	Quantitative effects of speckle reduction on cross sectional echocardiographic images. <i>Heart</i> , <b>1989</b> , 62, 298-304	5.1	16
109	Multi-directional in vivo tensile skin stiffness measurement for the design of a reproducible tensile strain elastography protocol. <i>Skin Research and Technology</i> , <b>2013</b> , 19, e37-44	1.9	15
108	Evaluation of experimental methods for assessing safety for ultrasound radiation force elastography. <i>British Journal of Radiology</i> , <b>2009</b> , 82, 666-74	3.4	15
107	Ultrasonic properties of tissues		15
106	Temporal regularization of ultrasound-based liver motion estimation for image-guided radiation therapy. <i>Medical Physics</i> , <b>2016</b> , 43, 455	4.4	14
105	What might echography learn from image science?. <i>Ultrasound in Medicine and Biology</i> , <b>1991</b> , 17, 559-75	3.5	14
104	Ultrasonic attenuation in fresh human tissues. <i>Ultrasonics</i> , <b>1981</b> , 19, 187-8	3.5	14
103	Calibration of ultrasound backscatter temperature imaging for high-intensity focused ultrasound treatment planning. <i>Ultrasound in Medicine and Biology</i> , <b>2013</b> , 39, 1596-612	3.5	13
102	Preliminary investigation into the use of ultrasound elastography during brain tumour resection. <i>Ultrasound</i> , <b>2012</b> , 20, 33-40	1.3	13
101	Quantitative ultrasonic elastography for gel dosimetry. <i>Ultrasound in Medicine and Biology</i> , <b>2010</b> , 36, 268-75	3.5	13
100	Attenuation and Absorption <b>2005</b> , 93-166		13
99	Slip elastography: a novel method for visualising and characterizing adherence between two surfaces in contact. <i>Ultrasonics</i> , <b>2012</b> , 52, 364-76	3.5	12
98	Colour DOPPLER image analysis for tissue vascularity and perfusion: a preliminary clinical evaluation. <i>Ultrasound in Medicine and Biology</i> , <b>1995</b> , 21, 1107-17	3.5	12
97	Acoustical Characteristics of Biological Media 1703-1726		12
96	Theranostic Attributes of Acoustic Cluster Therapy and Its Use for Enhancing the Effectiveness of Liposomal Doxorubicin Treatment of Human Triple Negative Breast Cancer in Mice. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 75	5.6	11
95	Photoacoustic clutter reduction using short-lag spatial coherence weighted imaging <b>2014</b> ,		11
94	Feasibility of skin surface elastography by tracking skin surface topography. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 121513	3.5	10
93	The effect of object speed and direction on the performance of 3D speckle tracking using a 3D swept-volume ultrasound probe. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 7127-43	3.8	10

92	Can relative contrast agent concentration be measured in vivo with color Doppler US?. <i>Radiology</i> , <b>1997</b> , 204, 279-81	20.5	10
91	Quantitative photoacoustic imaging study of tumours in vivo: Baseline variations in quantitative measurements. <i>Photoacoustics</i> , <b>2019</b> , 13, 53-65	9	10
90	Correlation between Histology and High Resolution Echographic Images of Small Skin Tumours. <i>Acoustical Imaging</i> , <b>1992</b> , 369-374		10
89	Ultrasound Shear Wave Elastography of the Normal Prostate: Interobserver Reproducibility and Comparison with Functional Magnetic Resonance Tissue Characteristics. <i>Ultrasonic Imaging</i> , <b>2018</b> , 40, 158-170	1.9	9
88	Investigation of In Vivo skin stiffness anisotropy in breast cancer related lymphoedema. <i>Journal of Biomechanics</i> , <b>2016</b> , 49, 94-99	2.9	9
87	Characterization of dose-dependent Young's modulus for a radiation-sensitive polymer gel. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 843-57	3.8	9
86	Thresholds for visual detection of Young's modulus contrast in simulated ultrasound image movies. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 2057-79	3.8	9
85	Data processing for 3-D ultrasound visualization of tumor anatomy and blood flow <b>1992</b> ,		9
84	Value of combining dynamic contrast enhanced ultrasound and optoacoustic tomography for hypoxia imaging. <i>Photoacoustics</i> , <b>2017</b> , 8, 15-27	9	8
83	InVivo response to compression of 35 breast lesions observed with a two-dimensional locally regularized strain estimation method. <i>Ultrasound in Medicine and Biology</i> , <b>2014</b> , 40, 300-12	3.5	8
82	Real-time ultrasound elastography in neurosurgery <b>2009</b> ,		8
81	Ultrasound Elastography of the Skin and Subcutis under Surface Extensive Loading. <i>Ultrasound</i> , <b>2006</b> , 14, 161-166	1.3	8
80	Characterization of the ultrasonic attenuation coefficient and its frequency dependence in a polymer gel dosimeter. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 6747-59	3.8	8
79	Spatial Coherence and Beamformer Gain <b>2002</b> , 43-48		8
78	Texture Analysis And Speckle Reduction In Medical Echography <b>1987</b> , 0768, 120		8
77	Tumour growth delay as a clinical endpoint for the measurement of radiation response. <i>Radiotherapy and Oncology</i> , <b>1986</b> , 5, 207-14	5.3	8
76	Combined Ultrasound and Cone Beam CT Improves Target Segmentation for Image Guided Radiation Therapy in Uterine Cervix Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2019</b> , 104, 685-693	4	7
75	Detecting human melanoma cell re-differentiation following BRAF or heat shock protein 90 inhibition using photoacoustic and magnetic resonance imaging. <i>Scientific Reports</i> , <b>2017</b> , 7, 8215	4.9	7



74	Towards ultrasound-guided adaptive radiotherapy for cervical cancer: Evaluation of Elekta's semiautomated uterine segmentation method on 3D ultrasound images. <i>Medical Physics</i> , <b>2017</b> , 44, 3630-3638	4.4	6
73	3D Liver tracking using a matrix array: Implications for ultrasonic guidance of IMRT <b>2010</b> ,		6
72	Therapeutic Dose Response of Acoustic Cluster Therapy in Combination With Irinotecan for the Treatment of Human Colon Cancer in Mice. <i>Frontiers in Pharmacology</i> , <b>2019</b> , 10, 1299	5.6	6
71	A new method for the acquisition of ultrasonic strain image volumes. <i>Ultrasound in Medicine and Biology</i> , <b>2011</b> , 37, 434-41	3.5	5
70	Physical Chemistry of the Ultrasound-Tissue Interaction <b>2005</b> , 223-235		5
69	Perceptual Studies Of Contrast, Texture And Detail In Ultrasound B-Scans <b>1988</b> , 0914, 40		5
68	Characterisation of Prostate Lesions Using Transrectal Shear Wave Elastography (SWE) Ultrasound Imaging: A Systematic Review. <i>Cancers</i> , <b>2021</b> , 13,	6.6	5
67	A Monte Carlo study of the effect of an ultrasound transducer on surface dose during intrafraction motion imaging for external beam radiation therapy. <i>Medical Physics</i> , <b>2017</b> , 44, 5020-5033	4.4	4
66	Micro-moulded randomised piezocomposites for high frequency ultrasound imaging <b>2012</b> ,		4
65	Medical ultrasound: research trends that may drive sensor development. <i>Journal of Physics: Conference Series</i> , <b>2005</b> , 15, 1-6	0.3	4
64	Multi-Channel Optical Coherence Elastography Using Relative and Absolute Shear-Wave Time of Flight. <i>PLoS ONE</i> , <b>2017</b> , 12, e0169664	3.7	4
63	Dosimetric accuracy of dynamic couch rotation during volumetric modulated arc therapy (DCR-VMAT) for primary brain tumours. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 08NT01	3.8	4
62	High Signal-to-Noise Ratio Contrast-Enhanced Photoacoustic Imaging using Acoustic Sub-Aperture Processing and Spatiotemporal Filtering <b>2019</b> ,		4
61	Reflection and Scattering <b>2005</b> , 191-222		3
60	Speed of Sound <b>2005</b> , 167-190		3
59	Adaptive speckle reduction for improving the differential diagnosis of breast lesions. <i>Journal of Ultrasound in Medicine</i> , <b>1995</b> , 14, 217-27	2.9	3
58			3
57	Tissue characterisation at WFUMB '85. <i>Ultrasound in Medicine and Biology</i> , <b>1986</b> , 12, 725-728	3.5	3

56	Contrast-Enhanced Photoacoustic Imaging of Low-boiling-point Phase-Change Nanodroplets <b>2019</b> ,		3
55	High Frequency Reflex Transmission Imaging: Feasibility for Eventual Application to the Diagnosis of Skin Tumours <b>2002</b> , 325-330		3
54	Non-Invasive Temperature Imaging Using Ultrasound Echo Strain: Preliminary Simulations. <i>Acoustical Imaging</i> , <b>1997</b> , 25-33		3
53	Plane wave versus focused transmissions for contrast enhanced ultrasound imaging: the role of parameter settings and the effects of flow rate on contrast measurements. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 095003	3.8	2
52	Improving 3D ultrasound prostate localisation in radiotherapy through increased automation of interfraction matching. <i>Radiotherapy and Oncology</i> , <b>2020</b> , 149, 134-141	5.3	2
51	The Stacked-Ellipse Algorithm: An Ultrasound-Based 3-D Uterine Segmentation Tool for Enabling Adaptive Radiotherapy for Uterine Cervix Cancer. <i>Ultrasound in Medicine and Biology</i> , <b>2020</b> , 46, 1040-1052 <sup>5</sup>	3.5	2
50	Performance characterisation of a new clinical spectroscopic epiphotoacoustic scanner <b>2013</b> ,		2
49	A two-dimensional locally regularized strain estimation technique: preliminary clinical results for the assessment of benign and malignant breast lesions <b>2011</b> ,		2
48	Toward characterizing the size of microscopic optical absorbers using optoacoustic emission spectroscopy <b>2010</b> ,		2
47	Visual detectability of elastic contrast in real-time ultrasound images <b>1997</b> ,		2
46	P4F-2 Ultrasonic Elastography and Plane Strain Inverse Algorithms for Polymer Gel Dosimetry. <i>Proceedings IEEE Ultrasonics Symposium</i> , <b>2007</b> ,		2
45	B-Mode Speckle Texture: The Effect of Spatial Coherence <b>2002</b> , 141-146		2
44	Ultrasonic Biophysics <b>2005</b> , 349-406		2
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